

IN THE CLAIMS

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims, in the application.

Please amend claims 1 thru 10 and 12 thru 17 as follows:

1 1. (Currently Amended) A wireless network system capable of tracking a location
2 of a mobile station, comprising:

3 a visitor location register in which location information relating to a wireless
4 network location of a mobile station is stored; and

5 a base station controller for storing the location information relating to [[a]] the
6 wireless network location of [[a]] the mobile station in said visitor location register when
7 the mobile station registers its location with said wireless network, and for confirming a
8 location of the mobile station by dummy paging and updating the location information
9 stored in said visitor location register when the mobile station keeps up an idle state
10 during a certain period.

1 2. (Currently Amended) A private wireless network system capable of tracking a
2 location of a mobile station, comprising:

3 at least one repeater dispersedly installed in sector zones of a private base
4 transceiver station;

5 a visitor location register in which location information relating to a private
6 wireless network location of a mobile station is stored, the location information including
7 at least one of a private base transceiver station number, a sector number and a repeater

8 number; and

9 a private base station controller for storing the location information relating to
10 [[a]] the private wireless network location of [[a]] the mobile station in said visitor
11 location register when the mobile station registers its location with said private wireless
12 network, and for confirming [[a]] the location of the mobile station by dummy paging and
13 updating the location information stored in said visitor location register when the mobile
14 station keeps up an idle state during a certain period.

1 3. (Currently Amended) A private wireless network system capable of tracking a
2 location of a mobile station, comprising:

3 a plurality of repeaters dispersedly installed in sector zones of a private base
4 transceiver station;

5 a visitor location register in which location information relating to a private
6 wireless network location of a mobile station is stored, the location information including
7 at least one of a private base transceiver station number, a sector number and a repeater
8 number;

9 a private base station controller for storing the location information relating to
10 [[a]] the private wireless network location of [[a]] the mobile station in said visitor
11 location register when the mobile station registers its location with said private wireless
12 network, and for confirming a location of the mobile station by dummy paging and
13 updating the location information stored in said visitor location register when the mobile
14 station keeps up an idle state during a certain period; and

15 a server for inquiring about the location information of the mobile station stored in
16 said visitor location register.

1 4. (Currently Amended) A method for tracking a location of a mobile station in a
2 wireless network, comprising the steps of:

3 storing, by a base station controller, location information relating to a wireless
4 network location of a mobile station in a visitor location register when the mobile station
5 registers its location with said wireless network;

6 confirming, by the base station controller, a location of the mobile station by
7 dummy paging when the mobile station keeps up an idle state during a certain period; and

8 updating the location information stored in said visitor location register using
9 information corresponding to the confirmed location information of the mobile station.

1 5. (Currently Amended) The method according to claim 4, wherein the location
2 information includes at least one of a base transceiver station number, a sector number
3 and a repeater number.

1 6. (Currently Amended) In a private wireless network including a visitor location
2 register in which location information of a mobile station is stored, a method for tracking
3 a location of [[a]] the mobile station, comprising the steps of:

4 storing, by a private base station controller of said private wireless network,
5 location information relating to a private wireless network location of [[a]] the mobile
6 station in said visitor location register when the mobile station registers its location with
7 said private wireless network;

8 confirming, by said private base station controller, [[a]] the location of the mobile
9 station by dummy paging when the mobile station keeps up an idle state during a certain

10 period; and

11 updating the location information stored in said visitor location register using
12 information corresponding to the confirmed location ~~information~~ of the mobile station.

1 7. (Currently Amended) The method according to claim 6, wherein the location
2 information includes at least one of a private base transceiver station number, a sector
3 number and a repeater number.

1 8. (Currently Amended) In a private wireless network including at least one
2 repeater dispersedly installed in sector zones of a private base transceiver station and a
3 visitor location register in which location information of a mobile station is stored, a
4 method for tracking a location of ~~[[a]]~~ the mobile station, comprising the steps of:

5 storing, by a private base station controller of said private wireless network, the
6 location information of ~~[[a]]~~ the mobile station in said visitor location register when the
7 mobile station registers its location with said private wireless network, the location
8 information including at least one of a private base transceiver station number, a sector
9 number and a repeater number with respect to the ~~relevant~~ mobile station;

10 confirming, by said private base station controller, ~~[[a]]~~ the location of the mobile
11 station by dummy paging when the mobile station keeps up an idle state during a certain
12 period; and

13 updating the location information stored in said visitor location register using
14 information corresponding to the confirmed location ~~information~~ of the mobile station.

1 9. (Currently Amended) In a private wireless network including a visitor location

2 register and a server representing location information of a mobile station, a method for
3 tracking a location of a mobile station, comprising the steps of:

4 storing, by a private base station controller of said private wireless network,
5 location information relating to a private wireless network location of ~~[[a]]~~ the mobile
6 station in said visitor location register when the mobile station registers its location with
7 said private wireless network;

8 confirming, by said private base station controller, ~~[[a]]~~ the location of the mobile
9 station by dummy paging when the mobile station keeps up an idle state during a certain
10 period;

11 updating the location information stored in said visitor location register using
12 information corresponding to the confirmed location ~~information~~ of the mobile station;
13 and

14 transmitting, by said private base station controller, the location information of the
15 mobile station to said server when the location information of the mobile station is stored
16 in said visitor location register.

1 10. (Currently Amended) A method for tracking a location of a subscriber mobile
2 station, comprising the steps of:

3 storing location information when ~~[[a]]~~ the subscriber mobile station executes
4 location registration, the location information including a private base transceiver station
5 number, a sector number and a repeater number with respect to the ~~relevant~~ subscriber
6 mobile station;

7 periodically transmitting, to a server, ~~a message requesting~~ an inquiry message
8 about a ~~mobile station subscriber's state to a server~~ of the subscriber mobile station;

9 ~~requesting, by the server,~~ a private base station controller to ~~inquire out~~ access
10 location information stored in a visitor location register in response to the inquiry
11 message;

12 ~~transmitting, by the private base station controller,~~ location information stored in
13 ~~[[a]] the~~ visitor location register to ~~[[a]] the~~ server in response to the ~~server's request~~
14 requesting by the server;

15 ~~transmitting, by the server,~~ the location information received from said private
16 base station controller to ~~[[the]] a~~ client;

17 ~~receiving, by the client,~~ the location information from said server, and providing a
18 user with a location and a state of a mobile station according to the received location
19 information; and

20 ~~confirming, by the base station controller,~~ ~~[[a]] the~~ location and ~~the~~ state of ~~[[a]]~~
21 the subscriber mobile station by dummy paging and updating ~~[[its]] the~~ location
22 information of said visitor location register when the ~~relevant~~ mobile station keeps up an
23 idle state during a certain period, and then transmitting the updated location information
24 to said server.

Claim 11. (Cancelled)

1 12. (Currently Amended) A method for tracking a location of a subscriber,
2 comprising the steps of:

3 storing location information when a mobile station executes location registration,
4 the location information including a private base transceiver station number, a sector
5 number and a repeater number with respect to the ~~relevant~~ mobile station;

6 ~~appointing~~ designating a specific subscriber mobile station, and requesting a client
7 to inquire about a state of the specific subscriber mobile station ~~subscriber's state~~, [[and]]
8 the client transmitting a message inquiring about the ~~specific state of the subscriber~~
9 mobile station ~~subscriber's state~~ to a server in response to ~~the user's~~ a request by a user;

10 requesting a private base station controller to confirm a location and the state of
11 the ~~specific subscriber~~ mobile station in response to the ~~client's~~ message transmitted by
12 the client; and

13 confirming, by the private base station controller, the location and the state of the
14 ~~specific subscriber~~ mobile station by dummy paging, updating location information
15 stored in a visitor location register, and transmitting, by the private base station
16 controller, the updated location information to said server in response to ~~said server's~~ a
17 request by the server.

1 13. (Currently Amended) The method according to claim 12, further comprising
2 the steps of:

3 transmitting, to the client, the location information ~~received from~~ transmitted by
4 said private base station controller ~~to the client~~; and

5 receiving, by the client, [[the]] location information [[from]] transmitted by said
6 server, and providing a user with [[a]] the location and the state of the ~~specific subscriber~~
7 mobile station according to the received location information.

1 14. (Currently Amended) The method according to claim 10, further ~~comprised~~
2 comprising the step of transmitting the location information stored in said visitor location
3 register directly to the server, remote from the visitor location register, in response to the

4 ~~server's request requesting by the server.~~

1 15. (Currently Amended) The private wireless network system of claim 3, [[with]]
2 said server being connected to said private base station controller through a local area
3 network, and [[the]] a plurality of repeaters being connected to the private base
4 transceiver station, [[with]] the private base transceiver station being connected to said
5 private base station controller.

1 16. (Currently Amended) The private wireless network system of claim 15, further
2 comprising a client [[being]] which is informed of the location information [[from]] by
3 said server, [[with]] said client being connected to said server, said server not
4 accommodating [[the]] a communication link between mobile stations.

1 17. (Currently Amended) The method of claim 13, [[with]] said client being
2 connected to said server, said server being connected to said private base station
3 controller through a certain network, and a plurality of repeaters being connected to the
4 private base transceiver station, [[with]] the private base transceiver station being
5 connected to said private base station controller.